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(54) Title: **PITUITARY ADENYLATE CYCLASE ACTIVATING PEPTIDE (PACAP) RECEPTOR (VPAC2) AGONISTS AND THEIR PHARMACOLOGICAL METHODS OF USE**

(57) Abstract: This invention provides novel peptides that function in vivo as agonists of the VPAC2 receptor. These insulin secretagogue polypeptides are shown to lower blood glucose in vivo upon glucose challenge. The polypeptides of this invention are also stable in formulation and have long half-lives. The peptides of the present invention provide a therapy for patients with decreased endogenous insulin secretion, for example, type 2 diabetics. The invention is also directed to a method of treating a metabolic disease in a mammal comprising administering a therapeutically effective amount of the peptides to said mammal.

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